Map of parcels at 37 kft on 07070918 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070918 2.5 2.0 Days Since Convection 1.5 1.0 NASA/ARC **PSL** Last Image Used is 0707090545 1443 Trajectories

Map of parcels at 37 kft on 07070918 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box. Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070918 5.0 4.5 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC **PSL** Last Image Used is 0707090545 1443 Trajectories

Map of parcels at 37 kft on 07070918 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070918 7.5 7.0 Days Since Convection 6.5 6:0 5.5 5.0 NASA/ARC **PSL** Last Image Used is 0707090545 1443 Trajectories

Map of parcels at 37 kft on 07070918 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07070918 10.0 9.5 Days Since Convection 9.0 8.5 8.0 7.5 NASA/ARC PSL Last Image Used is 0707090545 1443 Trajectories